

PMID: 7511805 [PubMed - indexed for MEDLINE]

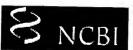
(ABSTRACT TRUNCATED AT 250 WORDS)

Display Abstract	च	Show: 20	Sort		Send to	Text
		5110 W . J		و حد		

the formation of a colored adduct between dopaguinone and MBTH.

tracer and/or the time of exposure of the gel, but it is at least ten times higher than the one of the colorimetric stain. Moreover, the intensity of the bands is proportional to the initial tyrosinase activity over a wide range. Using this procedure, the activity present in the different subcellular fractions of

melanocytes in culture can be easily detected. The second procedure involved







PubMed Nucleotide Search PubMed About Entrez

Protein Genome Structure

РМС

Taxonomy Go Clear

Clipboard

OMIM Вс

Details

Display

for Limits

Abstract

Preview/Index

Show: 20 Sort

History

Send to Text

Text Version

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy E-Utilities

PubMed Services Journals Database MeSH Database Single Citation Matcher **Batch Citation Matcher** Clinical Queries LinkOut Cubby

Related Resources **Order Documents NLM Gateway** TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central

Privacy Policy

☐ 1: Int J Hyperthermia. 2002 Nov-Dec;18(6):563-75.

Related Articles, L

MetaPress

Heat shock protein 70: role in antigen presentation and immune stimulation.

Milani V, Noessner E, Ghose S, Kuppner M, Ahrens B, Scharner A, Gastpar R, Issels RD.

KKG Hyperthermie, GSF-National Research Center for Environment and Health, 81377 Munich, Germany.

Heat shock proteins (HSP) when released into the extracellular milieu can ac simultaneously as a source of antigen due to their ability to chaperone peptid and as a maturation signal for dendritic cells, thereby inducing DCs to crosspresent antigens to CD8+ T-cells. HSP can also act independently from associated peptides, stimulating the innate immune system. Previous results regarding the activation of NK cells by HSP70 cell surface expression on tumour cells and soluble HSP70 will be further covered elsewhere within this issue. For cross-presentation, HSP70-peptide complexes (HSP70-PC) were used from two human melanoma cell lines that differ in the expression of the tumour-associated antigen tyrosinase. Purified HSP70-PC consists of both th constitutively expressed HSC70 and the inducible HSP70. HSP70-peptide complexes purified from tyrosinase positive (HSP70-PC/tyr+) human melanoma cells, incubated with immature DCs, results in the activation of HLA-*A0201-restricted tyrosinase peptide-specific T-cells. Receptor-mediat uptake of HSP70-PC by DCs and intracellular transport are required for efficient MHC class I restricted cross-presentation of chaperoned peptides. Demonstration of HSP70-PC mediated cross-presentation of such non-mutate naturally expressed tumour antigens is of special clinical interest with regard hyperthermia. Tumour regression and improved local control have been show within clinical phase II/III trials integrating regional hyperthermia combined with radiation and/or chemotherapy in multimodal treatment strategies. According to the proposed concept, local necrosis induced by hyperthermic treatment induces the release of HSPs, followed by uptake, processing and presentation of associated peptides by DCs. By acting as chaperone and a sig for DC maturation, HSP70-PC might efficiently prime circulating T-cells. Therefore, upregulating HSP70 and causing local necrosis in tumour tissue b hyperthermia offers great potential as a new approach to directly activate the immune system.